

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)	
	09/961,092	YE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ramesh Krishnamurthy	3753	
The MAILING DATE of this communicate Period for Reply			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC.  Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun.  If the period for reply specified above is less than thirty (30) or lif NO period for reply is specified above, the maximum staturent or reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION.  37 CFR 1.136(a). In no event, however, may a replication.  days, a reply within the statutory minimum of thirty tory period will apply and will expire SIX (6) MONTI	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed			
	— matters procedution as to the merits is		
3) Since this application is in condition to closed in accordance with the practice	e under <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 13 - 27 is/are pending in the 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 13 - 27 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	e withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the	Examiner.	w the Eveniner	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to	by the Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
2 Certified copies of the priority of	documents have been received. documents have been received in A of the priority documents have been hal Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	4) ☐ Interview S	ummary (PTO-413)	
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (P	TO-948) Paper No(s	s)/Mail Date nformal Patent Application (PTO-152)	
Information Disclosure Statement(s) (PTO-1449 or l Paper No(s)/Mail Date	PTO/SB/08) 5)   Notice of in		

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This office action is responsive to amendment filed 03/17/2004.

## Claims 13 – 27 are pending.

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12 18 and 24 27 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 00/36482.

The document WO 00/36482 discloses (Fig.2, for example) a back pressure valve, comprising: (a) a first housing including a first chamber formed therein having an inlet (2) and a fluid outlet (5) for a first fluid; (b) a second housing including a second chamber (21) formed therein, (c) a flexible diaphragm (10) having an outer peripheral edge portion abutting the second housing and closing off the second chamber, (d) a back pressure member (15) moveably disposed in the first chamber of the first housing for controlling fluid flow between the fluid inlet and the fluid outlet, wherein the first chamber is defined by the first housing and the back pressure member, wherein the flexible diaphragm is fixed onto and moveable together with the back pressure member, whereby pressure in the second chamber determines fluid pressure required to maintain the back pressure member in a steady position, and (e) a reference inlet (22) and a reference outlet (23), for a reference fluid, provided in the second housing, and a control valve means (26, 27, 31) in the second housing connected to the reference inlet and the

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reference outlet, for controlling the pressure in at least part of the second housing applied to the flexible diaphragm and the back pressure member.

A pressure controlling device (31) that includes a processor is connected to the control valve means. A pressure transducer (3) is disposed downstream of the outlet (5). The control valve means comprises a reference inlet valve (26) and a reference outlet valve (27) controlling the flow into and out of the chamber (21) respectively. The reference inlet and outlet valves are not shown mounted within the second housing but do control the flow in and out respectively therefrom, thus are somehow mounted on the second housing.

Regarding claim 25 and 26, it is noted that a sleeve member is disclosed in WO 00/36482 (Fig. 2) to be disposed around the bore (2).

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 19 - 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/36482 as applied to claims 12 - 18 and 24 - 27 above, and further in view of Uehara et al. (US 6,305,401).

The document WO 00/36482 discloses the claimed invention with the exception of explicitly disclosing the reference inlet and outlet valves to be mounted on a member that comprises a gas dome.

Uehara et al. discloses (Fig. 1) a back pressure valve comprising reference inlet valve (31) and a reference outlet valve (32) that are mounted in a gas dome and mounted on a end wall of the second housing (that has the second chamber (26a)) for the purpose of providing a self-contained valve assembly.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided in the device of WO 00/36482, a member comprising a gas dome in which are mounted reference inlet and outlet valves, for the purpose of providing a self-contained valve assembly, as recognized by Uehara et al..

It is also noted that Uehara et al. discloses a through hole (that communicates the second chamber (26a) with the reference inlet and outlet valves) wherein the gas dome is mounted so as to close off the through hole.

Regarding claim 22, it is noted that Uehara et al. discloses (Fig. 1) a flange portion, around the internal hollow portion, in the gas dome abutting the end wall of the second housing, the end wall and the flange portion each include at least one hole

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permitting reference gas to flow from the reference gas inlet to the reference inlet valve (31), the flange portion includes at least one hole permitting the reference gas to flow from the reference inlet valve to the interior of the gas dome (at 26a) and at least one hole permitting the reference gas to flow out from the interior of the gas dome to the reference outlet valve (32), and the flange and the flange portion each include at least one hole permitting the reference gas to flow from the reference gas outlet valve to the reference gas outlet.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

## Response to Arguments

7. Applicant's arguments with respect to claims 13 - 27 have been considered but are most in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramesh Krishnamurthy whose telephone number is (703) 305 - 5295. The examiner can normally be reached on Monday - Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Scherbel, can be reached on (703) 308 - 1272. The fax phone number for the organization where this application or proceeding is assigned is (703) 872 – 9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 - 0861.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RK

Ramesh Krishnamurthy Examiner Art Unit 3753

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Group 3700

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